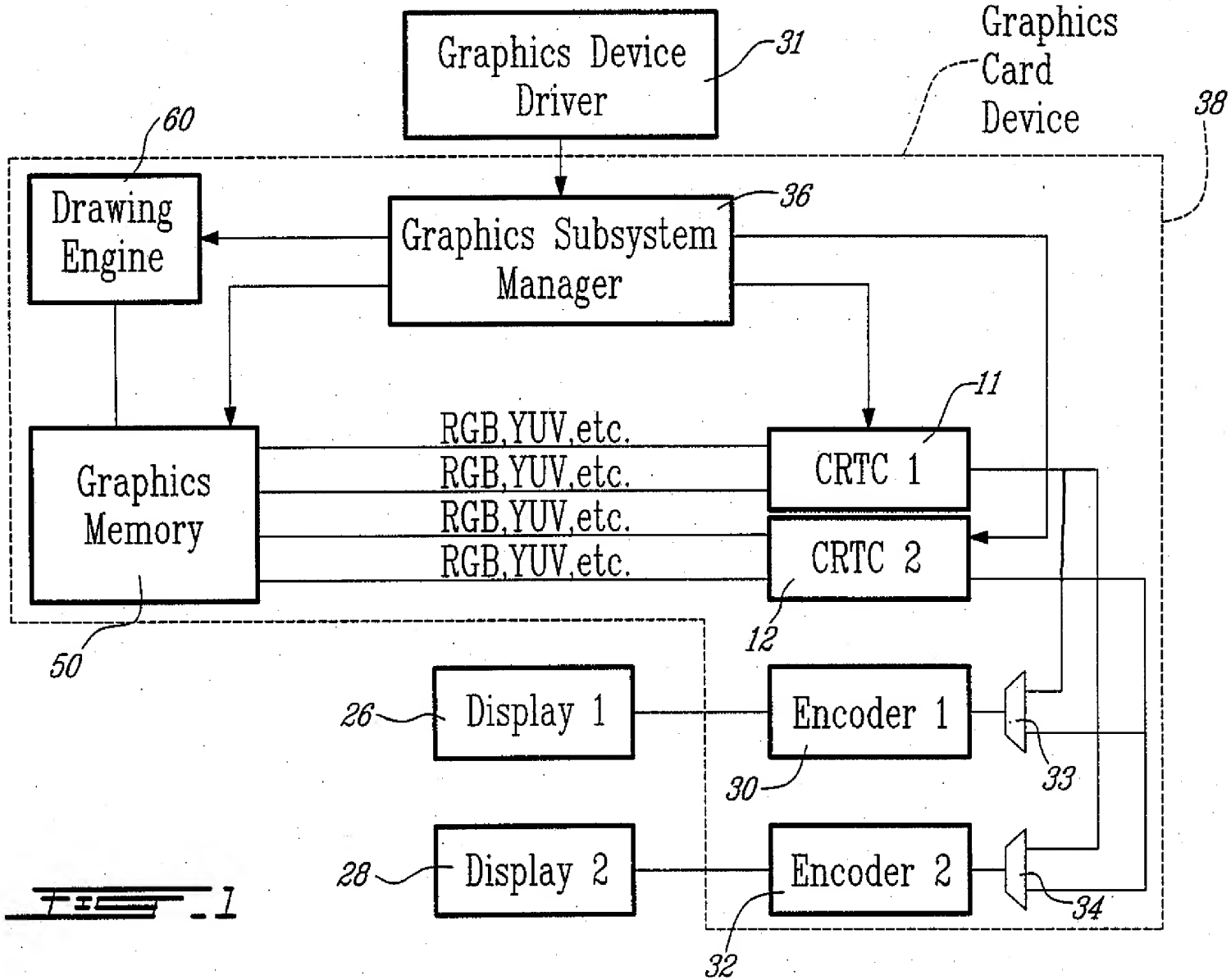
Graphics Device Driver
31
Graphics Card Device
38
60
Drawing Engine
Graphics Subsystem Manager
36
11
RGB,YUV,etc.
RGB,YUV,etc.
RGB,YUV,etc.
RGB,YUV,etc.
Graphics Memory
CRTC 1
CRTC 2
50
12
26
Display 1
Encoder 1
30
33
28
Display 2
Encoder 2
32
34

Fig. 1

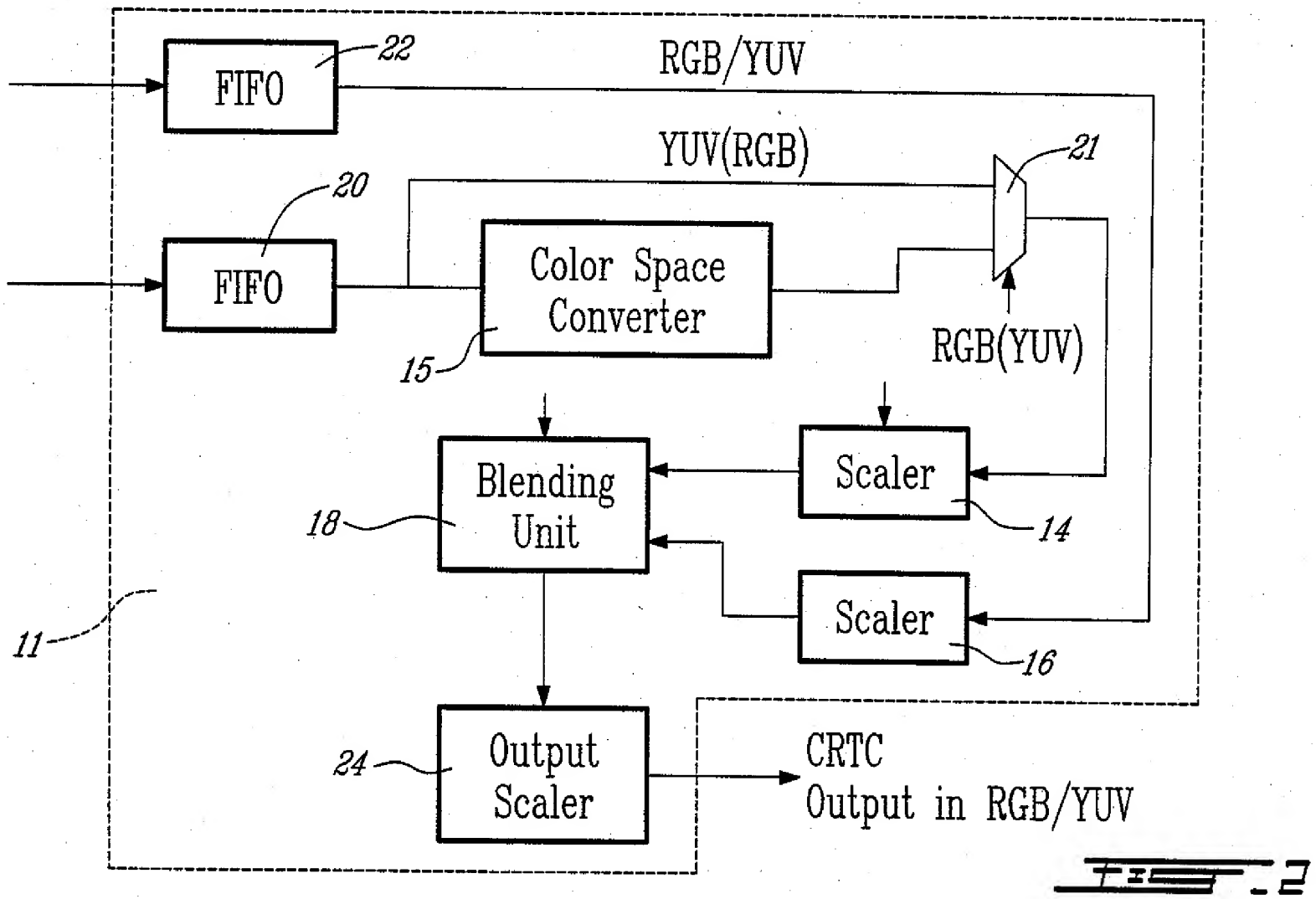
FIFO
22
RGB/YUV
YUV(RGB)
21
20
FIFO
Color Space
Converter
15
RGB(YUV)
Blending
Unit
18
Scaler
14
Scaler
16
11
24
Output
Scaler
CRTC
Output in RGB/YUV

Fig. 2

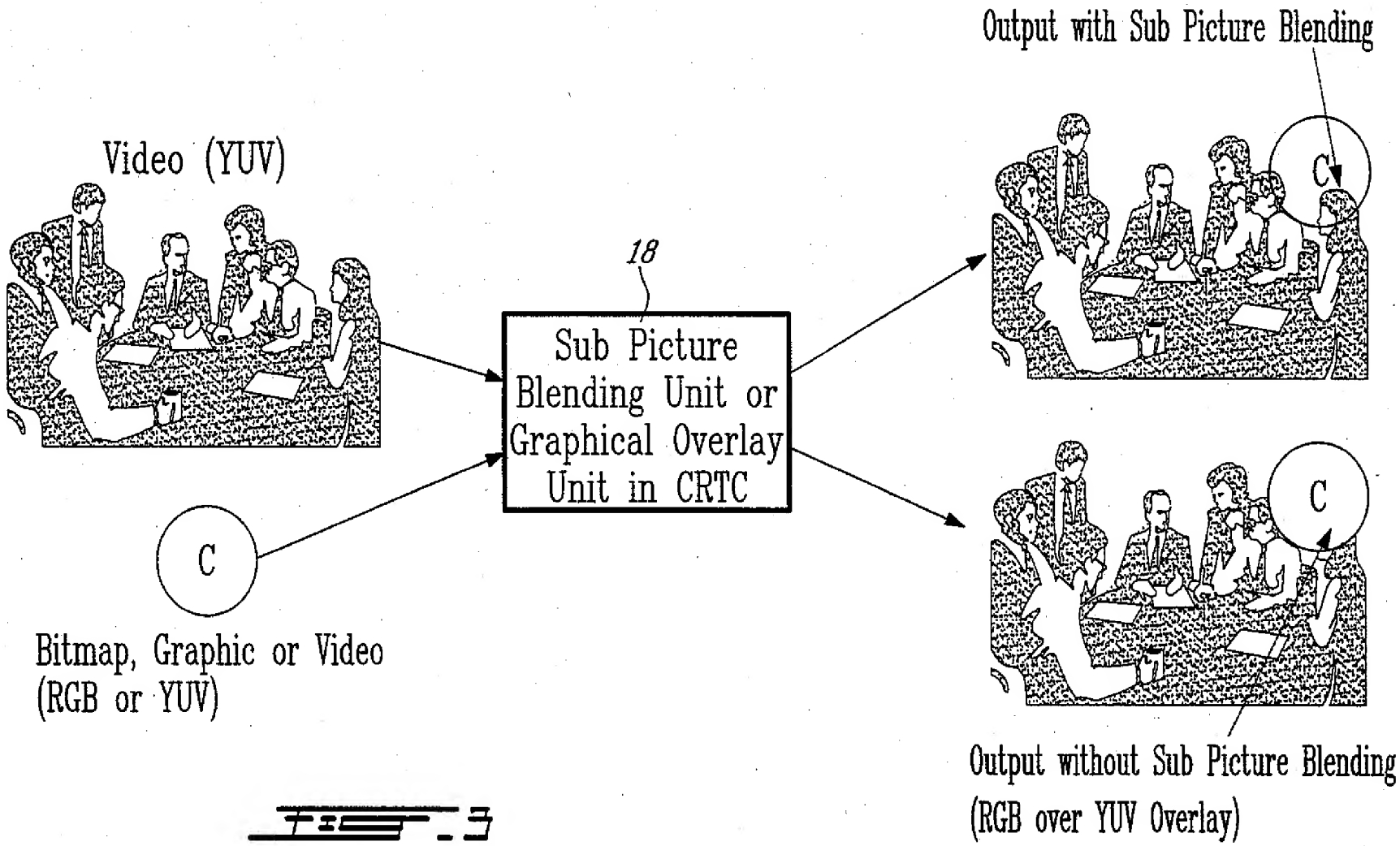
Output with Sub Picture Blending
Video (YUV)
18
Sub Picture Blending Unit or Graphical Overlay Unit in CRTC
C
C
Bitmap, Graphic or Video (RGB or YUV)
Output without Sub Picture Blending (RGB over YUV Overlay)

Fig. 3

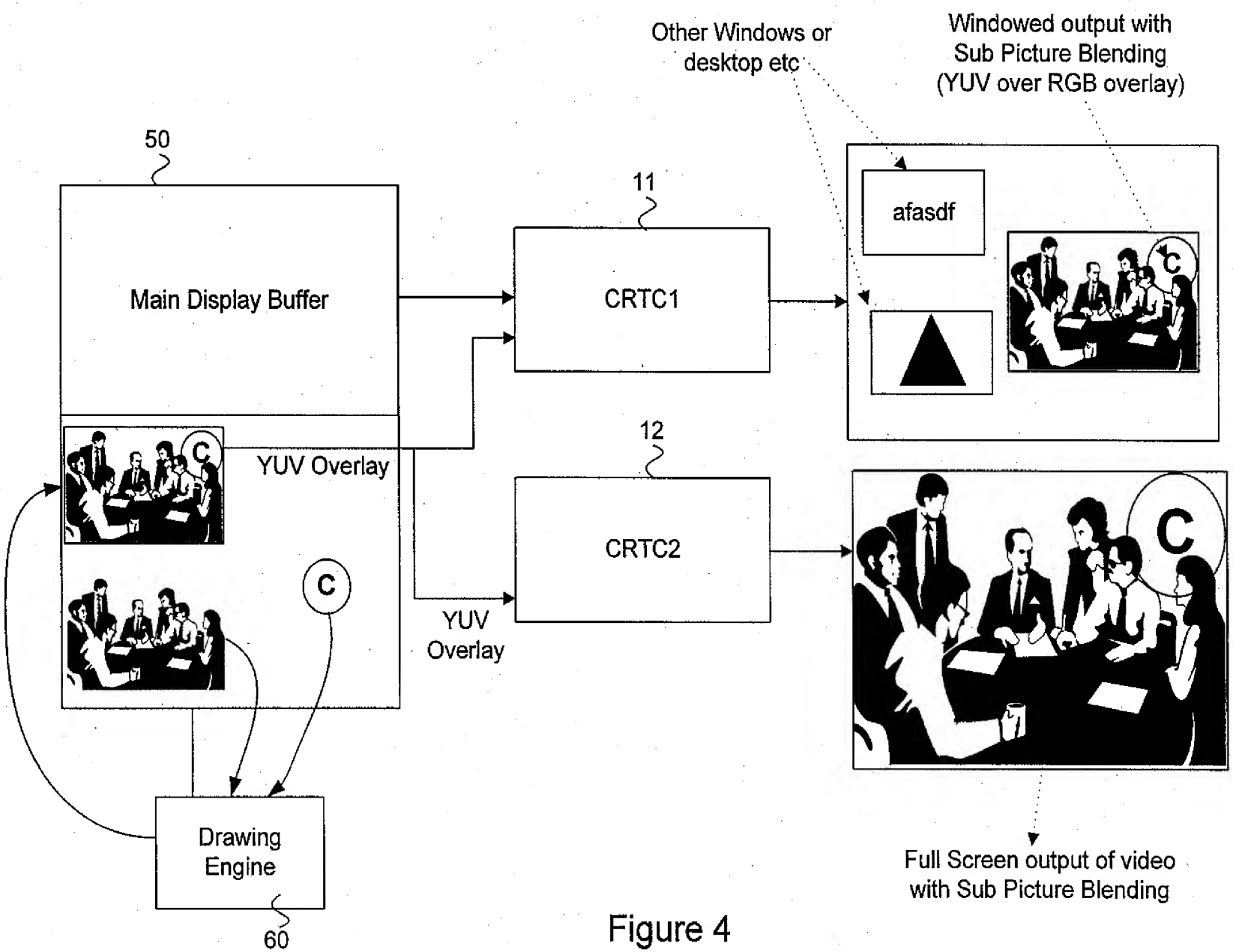
Other Windows or
desktop etc
Windowed output with
Sub Picture Blending
(YUV over RGB overlay)
50
11
Main Display Buffer
CRTC1
afasdf
12
YUV Overlay
CRTC2
YUV
Overlay
Drawing
Engine
60
Full Screen output of video
with Sub Picture Blending

Figure 4